

Quiz 7

1) Simplify:

$$\frac{(n+2)!}{n!}$$

2) Solve for x:

$${}_xP_4 = 8 \cdot {}_{x-1}P_3$$

3) Suppose the Senate of the United States consists of 58 Democrats and 42 Republicans. How many committees made up of 6 Democrats and 4 Republicans can be formed?

4) Solve for x:

$${}_{x+2}C_4 = 6 \cdot {}_xC_2$$